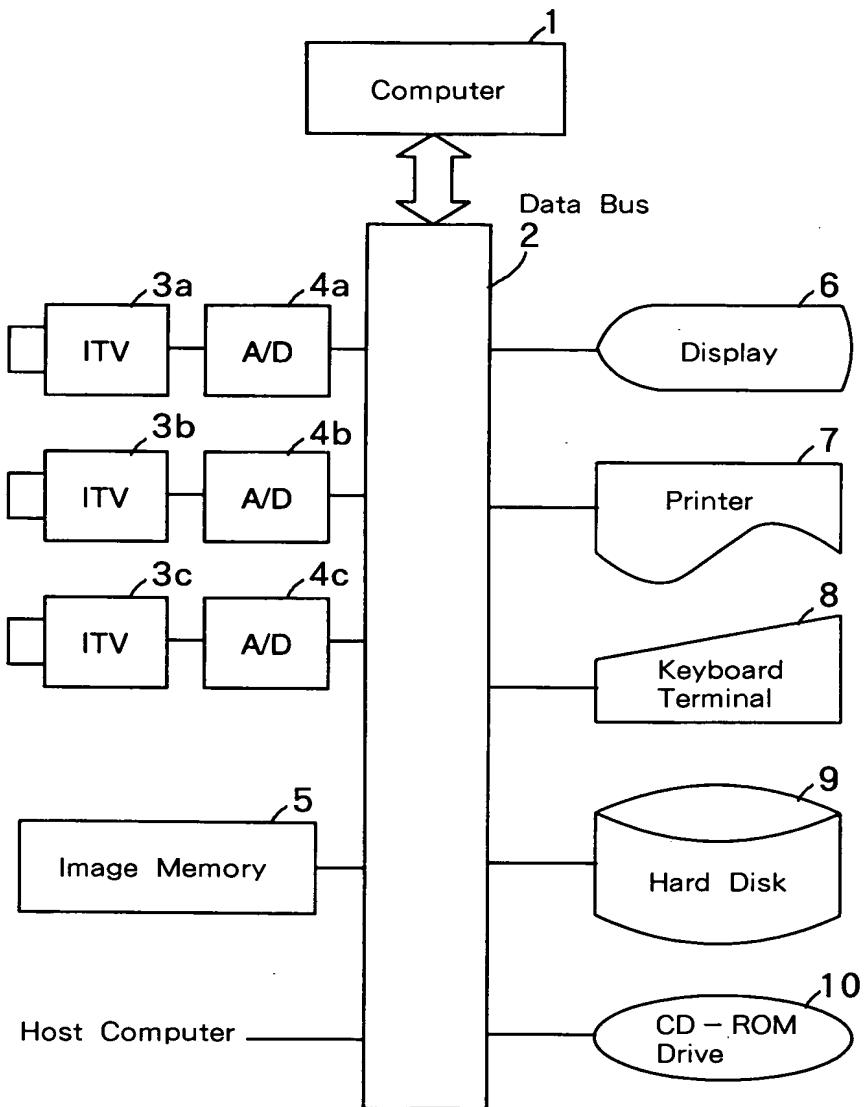


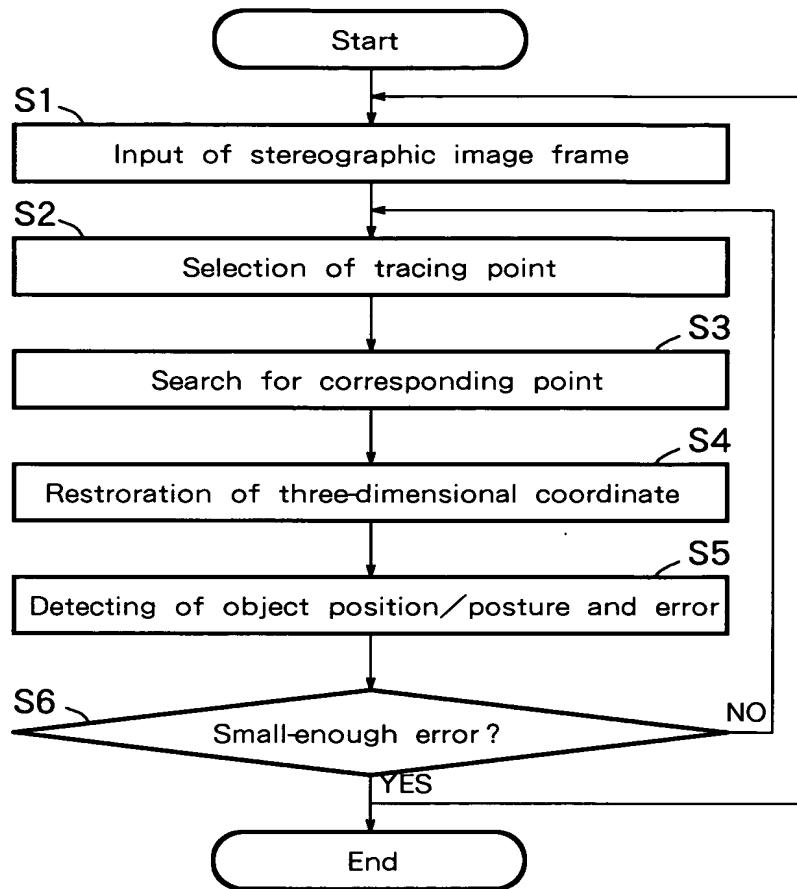
**FIG. 1**

System Configuration for Embodying the Present Invention



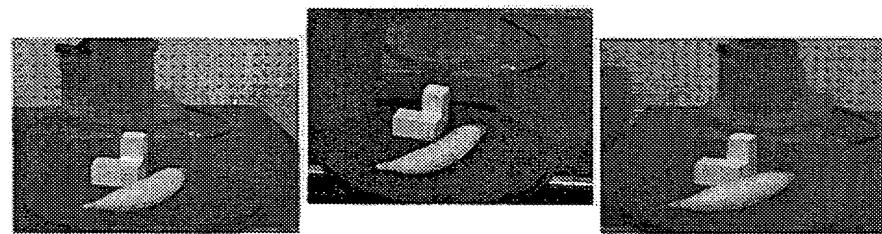
**FIG.2**

Flow of Basic Processing of This Invention



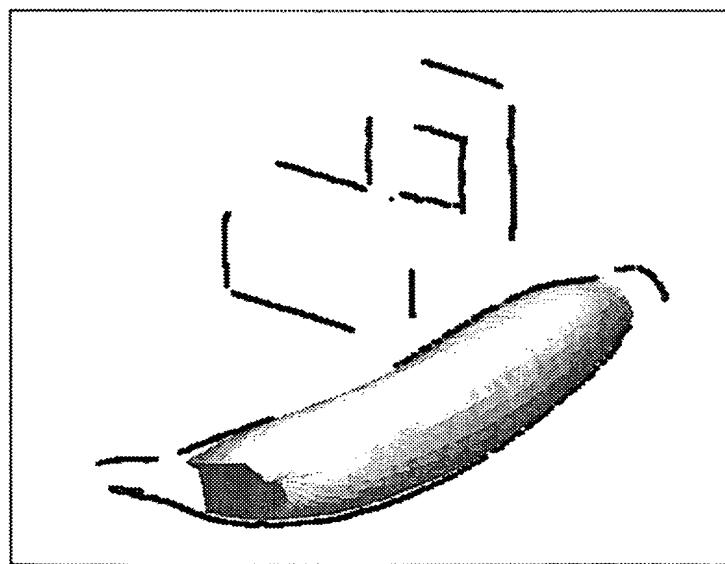
**FIG.3**

An Example of Time-Series Stereo Image



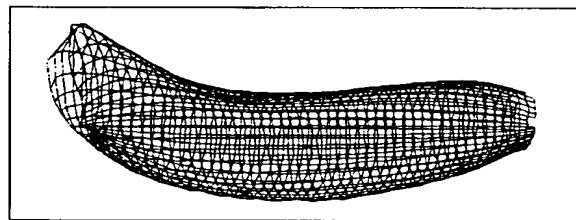
**FIG.4**

An Example of Estimated Initial Position of a Curve-Faced Object



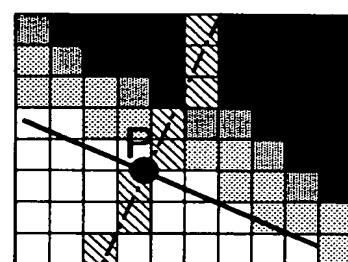
**FIG.5**

An Example of Net Configuration of a Curve-Faced Object Model



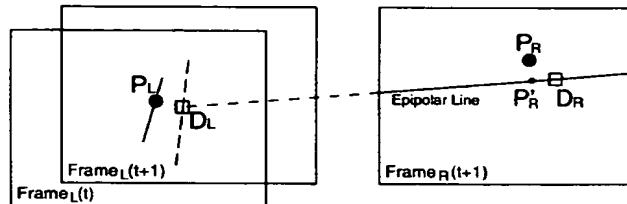
**FIG.6**

Method of Searching for a Corresponding Edge Point



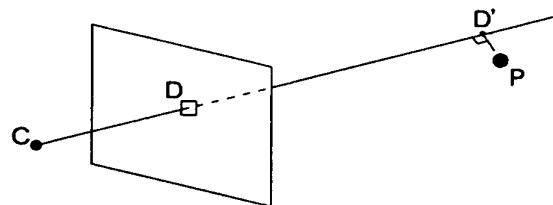
**FIG.7**

Method of Searching for a Stereo Corresponding Point



**FIG.8**

Method of Three-Dimensional Estimation of a Corresponding Point by Monocular Vision



**FIG.9**

Measurement Error of a Curve-Faced Object in Stereo Vision

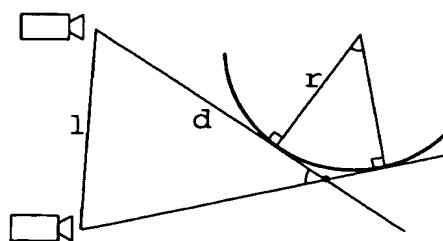


FIG. 10

## An Example of a Tracing Result of an Arbitrarily-Curved Object

